

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

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Kazunaga HORIUCHI, Masaaki SHIMIZU

Application No.: New U.S. Patent Application

Filed: February 26, 2002

Docket No.: 112046

For: NANOWIRE, METHOD FOR PRODUCING THE NANOWIRE, NANONETWORK  
USING THE NANOWIRES, METHOD FOR PRODUCING THE NANONETWORK,  
CARBON STRUCTURE USING THE NANOWIRE, AND ELECTRONIC DEVICE  
USING THE NANOWIRE

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office  
Washington, D. C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 6 and 10-12 as follows:

6. (Amended) The nanowire according to claim 1, wherein the functional layer has semiconductor properties.
10. (Amended) The nanowire according to claim 1, wherein a predetermined material is incorporated into a hollow tubular portion of the carbon nanotube forming the core portion.

11. (Amended) The nanowire according to claim 1, wherein the carbon nanotube forming the core portion has a structure showing semiconductor properties.

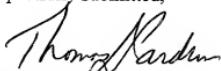
12. (Amended) The nanowire according to claim 1, wherein the carbon nanotube forming the core portion has a structure showing conductor properties.

REMARKS

Claims 1-25 are pending. By this Preliminary Amendment, claims 6 and 10-12 are amended. Prompt and favorable examination on the merits is respectfully requested.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

Respectfully submitted,



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Attachment: Appendix

Date: February 26, 2002

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## APPENDIX

## Changes to Claims:

The following are marked-up versions of the amended claims:

6. (Amended) The nanowire according to claim 1, wherein the functional layer has semiconductor properties.

10. (Amended) The nanowire according to claim 1, wherein a predetermined material is incorporated into a hollow tubular portion of the carbon nanotube forming the core portion.

11. (Amended) The nanowire according to claim 1, wherein the carbon nanotube forming the core portion has a structure showing semiconductor properties.

12. (Amended) The nanowire according to claim 1, wherein the carbon nanotube forming the core portion has a structure showing conductor properties.